

What is claimed is:

1. A corrosion-resistant aluminum conductive material comprising an aluminum material consisting of aluminum or an aluminum alloy and a conductive film formed on the surface of said aluminum material wherein defects in the conductive film are substantially sealed off by a hot water treatment or a steam treatment.
2. A corrosion-resistant aluminum conductive material as described in claim 1 wherein the conductive film is formed by any one of plating, flame spraying, electrophoresis and coating.
3. A corrosion-resistant aluminum conductive material as described in claim 1 or 2 wherein the conductive film has a thickness of 5 μ m or less.
4. A corrosion-resistant aluminum conductive material as described in any one of claims 1-3 wherein the hot water treatment or the steam treatment is performed by using water of 70 °C or above.
5. A corrosion-resistant aluminum conductive material as described in any one of claims 1-4 wherein the hot water treatment or the steam treatment is performed by using water showing a pH in the range of 3-12 at 25 °C.
6. A corrosion-resistant aluminum conductive material as described in any one of claims 1-5 wherein the hot water treatment is performed by using water showing a phosphate ion concentration of 25 ppm or less as phosphorus and a silicate ion concentration of 25 ppm or less as silicon.

7. A process for producing a corrosion-resistant aluminum conductive material comprising an aluminum material consisting of aluminum or an aluminum alloy and a conductive film formed on the surface of said aluminum material which comprises forming a conductive film on the surface of an aluminum material and then subjecting to a hot water treatment or a steam treatment thereby substantially sealing off defects in the conductive film.

8. A process for producing a corrosion-resistant aluminum conductive material as described in claim 7 wherein the conductive film is formed by any one of plating, flame spraying, electrophoresis and coating.

9. A process for producing a corrosion-resistant aluminum conductive material as described in claim 7 or 8 wherein the conductive film has a thickness of 5 μ m or less.

10. A process for producing a corrosion-resistant aluminum conductive material as described in any one of claims 7-9 wherein the hot water treatment or the steam treatment is performed by using hot water of 70°C or above.

11. A process for producing a corrosion-resistant aluminum conductive material as described in any one of claims 7-10 wherein the hot water treatment or the steam treatment is performed by using water showing a pH in the range of 3-12 at 25 °C.

12. A process for producing a corrosion-resistant aluminum conductive material as described in any one of claims 7-11 wherein the hot water treatment is performed by using water showing a

phosphate ion concentration of 25 ppm or less as phosphorus and a silicate ion concentration of 25 ppm or less as silicon.